

ABSTRACT

Hot-melt Seal For Nozzles on Print Cartridges And
5 Method. A layer of hot-melt is adhesively bonded to a print
cartridge to seal the nozzles through which ink is jetted. In
another aspect, a layer of hot-melt seals the electrical contacts
and leads mounted on the print cartridge. The hot-melt
adhesive can be either laminated with a moisture retardant
10 (preferably impermeable) base film or block coated on moisture
retardant (preferably impermeable) pouch material. These
materials are thereafter adhesively bonded to the print
cartridge, sealing the nozzles and preferably the electrical
contacts and leads as well.

15 In one application process, a hot-melt moisture
retardant laminate tape is cut to size, releasably captured,
positioned over the nozzles, and heat staked to seal the nozzles
of the print cartridge. In a second application process, a layer of
hot-melt is directly applied over the nozzles and a layer of
20 moisture retardant material is heat staked to the hot-melt. In a
third application process, heat stakable pouch material is block
coated with hot-melt, the block coated hot-melt is positioned
over the nozzles and heat staked, and the print cartridge is
thereafter flow wrapped. In a fourth application process a hot-
25 melt, moisture retardant tape is cut to size and heat staked to
seal the nozzles of a print cartridge. Thereafter a free-end of the
tape is heat staked into a pouch material and then the print
cartridge is flow wrapped with the pouch material.